

WHAT IS CLAIMED IS:

1. A facility administration apparatus arranged in an area having a plurality of facilities collected therein, capable of communicating with a mobile device lent to a facility user via a plurality of relay stations each having a transceiver, and organizing a reservation of each facility as reservation information in response to a request transmitted from said mobile device for a reservation of each facility, comprising:
  - 5 a reservation information master file storing said reservation information for each facility an identifier of said mobile device carried by said facility user having made a reservation, information of a facility reserved by said facility user, and a time at which said facility user desires to use said facility;
  - 10 means for referring to said time in said reservation information master file to transmit via said relay station to said mobile device of said facility user a predetermined temporal period before said time a notification indicating that said time is approaching;
  - 15 means for receiving an identifier of said relay station having transmitted said notification to said mobile device, and determining from said identifier of said relay station a position of said facility user carrying said mobile device with said user;
  - 20 a shortest-route master file previously storing a shortest route from each subarea of said area to each facility;
  - 25 means for determining a shortest route based on said position determined of said facility user, said information stored in said facility reservation master file indicating said facility reserved by said facility user, and said shortest-route master file; and
- means for transmitting information of said shortest route.
2. The facility administration apparatus according to claim 1, wherein said means for receiving determines as a subarea having said facility user located therein a range surrounded by a plurality of said relay stations having transmitted said notification to said mobile device.

T P E D U S

3. A facility administration apparatus arranged in an area having a plurality of facilities collected therein, and connectable via a network to a facility terminal arranged at each facility connectable to a mobile device, comprising:

- 5        an identifier master file storing an identifier of a mobile device available;
- 10      means for comparing an identifier of a mobile device transmitted from said mobile device via said facility terminal with said identifier of said mobile device stored in said identifier master file;
- 15      means for receiving account information from said facility terminal if said identifier of said mobile device transmitted from said mobile device matches said identifier of said mobile device stored in said identifier master file; and
- 20      an account information master file storing said account information for said identifier of each said mobile device.

4. The facility administration apparatus according to claim 3, wherein:

      said identifier master file further stores an identifier of said facility user carrying said mobile device with said user;

5        said means for comparing compares said identifier of said mobile device and said identifier of said facility user together transmitted from said mobile device via said facility terminal with said identifier of said mobile device and said identifier of said facility user together stored in said identifier master file; and

10      if said identifier of said mobile device and said identifier of said facility user together transmitted from said mobile device match said identifier of said mobile device and said identifier of said facility user together stored in said identifier master file, said facility administration apparatus receives account information transmitted from said facility terminal.

15      5. The facility administration apparatus according to claim 4,

wherein said identifier master file further imposes a period of validity on said identifier of said facility user carrying said mobile device with said user.

6. A facility administration method employing a facility administration apparatus arranged in an area having a plurality of facilities collected therein, capable of communicating with a mobile device lent to a facility user via a plurality of relay stations each having a transceiver, and organizing a reservation of each facility as reservation information in response to a request transmitted from said mobile device for a reservation of each facility, comprising the steps of:

5           storing as said reservation information for each facility an identifier of said mobile device carried by said facility user having made a reservation, information of said facility reserved by said facility user, and a time at which said facility user desires to use said facility;

10           referring to said time in said reservation information master file to transmit via said relay station to said mobile device of said facility user a predetermined temporal period before said time a notification indicating that said time is approaching;

15           receiving an identification of said relay station having transmitted said notification to said mobile device, and determining from said identifier of said relay station a position of said facility user carrying said mobile device with said user;

20           previously storing in a shortest-route master file a shortest route from each subarea of said area to each facility;

25           determining a shortest route based on said position determined of said facility user, said information stored in said facility reservation master file indicating said facility reserved by said facility user, and said shortest-route master file; and

transmitting information of said shortest route.

7. The facility administration method according to claim 6, wherein said step of reserving and determining determines as a subarea having said

100-00000000

facility user located therein a range surrounded by a plurality of said relay stations having transmitted said notification to said mobile device.

8. A facility administration method employing a facility administration apparatus arranged in an area having a plurality of facilities collected therein, and connectable via a network to a facility terminal arranged at each facility connectable to a mobile device, comprising the steps of:

5        storing in an identifier master file an identifier of said mobile device available;

10      comparing an identifier of a mobile device transmitted from said mobile device via said facility terminal with said identifier of said mobile device stored in said identifier master file;

15      receiving account information from said facility terminal if said identifier of said mobile device transmitted from said mobile device matches said identifier of said mobile device stored in said identifier master file; and

20      storing said account information to an account information master file for said identifier of each said mobile device.

9. The facility administration method according to claim 8, wherein:

25      said step of storing in said identifier master file also stores an identifier of said facility user carrying said mobile device with said user;

30      said step of comparing includes comparing said identifier of said mobile device and said identifier of said facility user together transmitted from said mobile device via said facility terminal with said identifier of said mobile device and said identifier of said facility user together stored in said identifier master file; and

35      account information is received from said facility terminal if said identifier of said mobile device and said identifier of said facility user together transmitted from said mobile device match said identifier of said mobile device and said identifier of said facility user together stored in said identifier master file.

10. The facility administration method according to claim 9,  
wherein said step of storing in said identifier master file imposes a period of  
validity on said identifier of said facility user carrying said mobile device  
with said user.